



U.S. Army Corps  
of Engineers  
Wilmington District

# John H. Kerr Rehabilitation Project Update



**2 December 2004**



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# **John H. Kerr Powerhouse**

## **Breaker Supply and Install Contract Complete**

**Cost: \$4,689,555**

**28 Breakers Total**





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# John H. Kerr 115 kV Switchyard Upgraded from 600A to 2000A







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# Gas Breaker being installed in Switchyard





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# Kerr Transformer Bay

**Unit 1 Rated: 15 MVA Present, 55 MVA Future**  
**Units 2-7 Rated: 41 MVA Present, 55 MVA Future**







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# Disassembly Of Old Unit





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# Assembly of New Unit



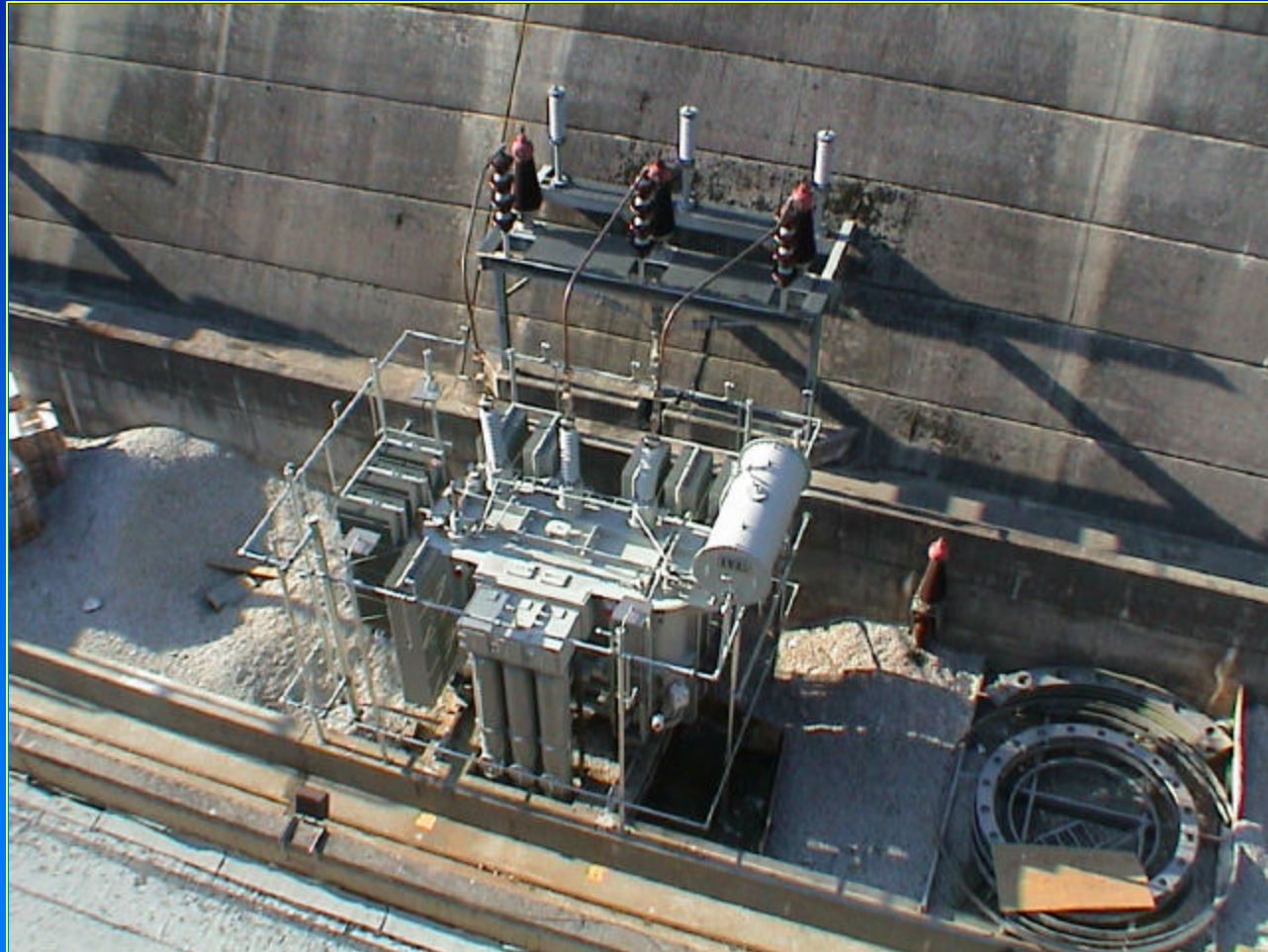




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# Kerr Transformer Bay

## Transformer Number 2 Installed



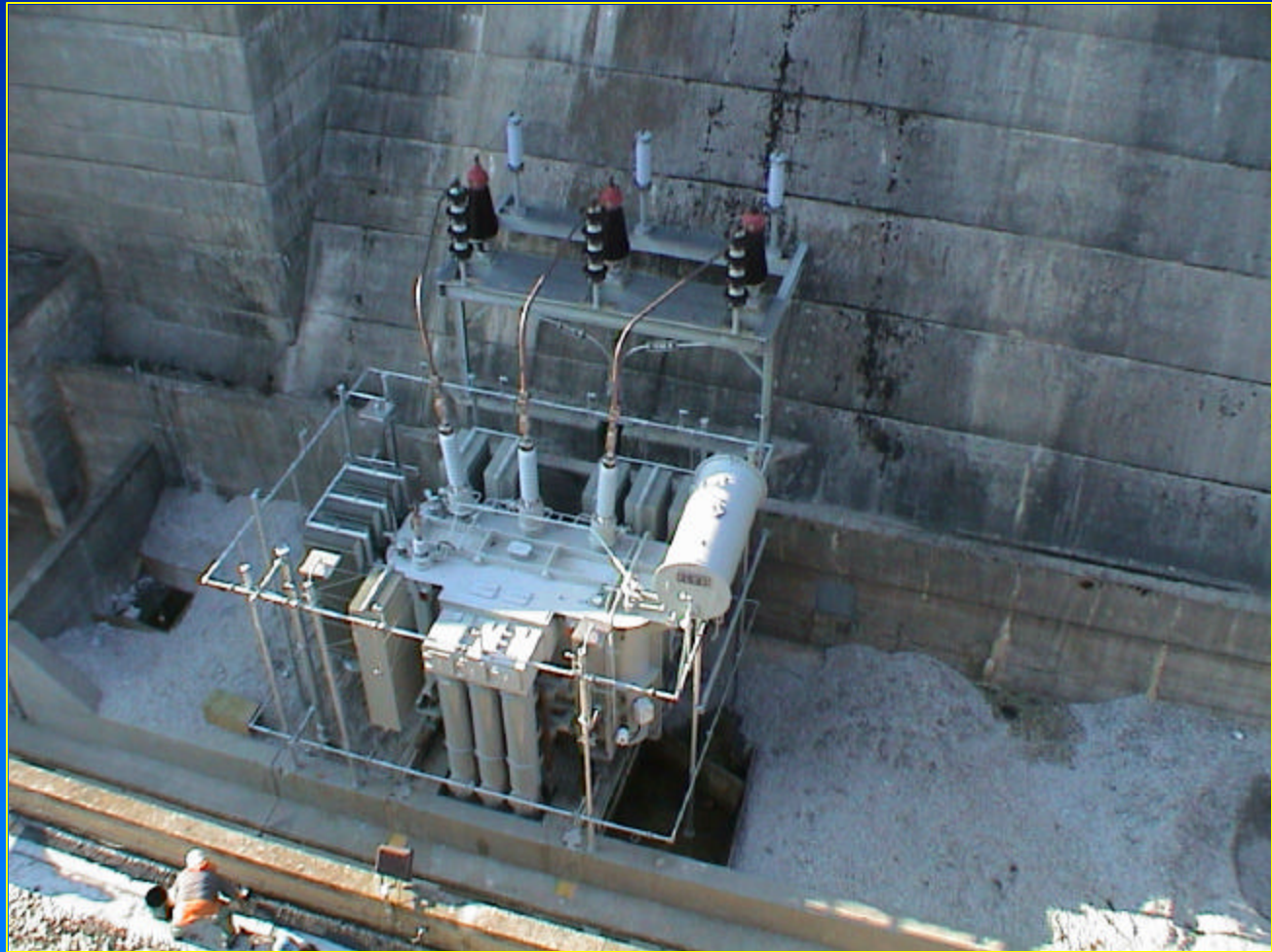




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# Kerr Transformer Bay

## Transformer Number 7 Installed





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# John H. Kerr Station Units New 480V Station Service Board During Factory Test







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## 13.8kV Station Service Switchgear for the Station Service Tap





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# Kerr Annunciation System during Factory Testing







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**John H. Kerr Powerhouse**  
**Present Nameplate Capacity: 204 MW**  
**New Nameplate Capacity: ~296 MW**  
**Contract Awarded to General Electric, Co.**  
**Award Date was 30 January 2003.**  
**Total Cost: \$46,892,790.**





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**John H. Kerr Powerhouse  
General Electric Main Contract  
Currently Placed on Hold due to  
lack of Government Funding for FY04  
Work Scheduled to Continue FY05**







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# **GE Major Contract Work**

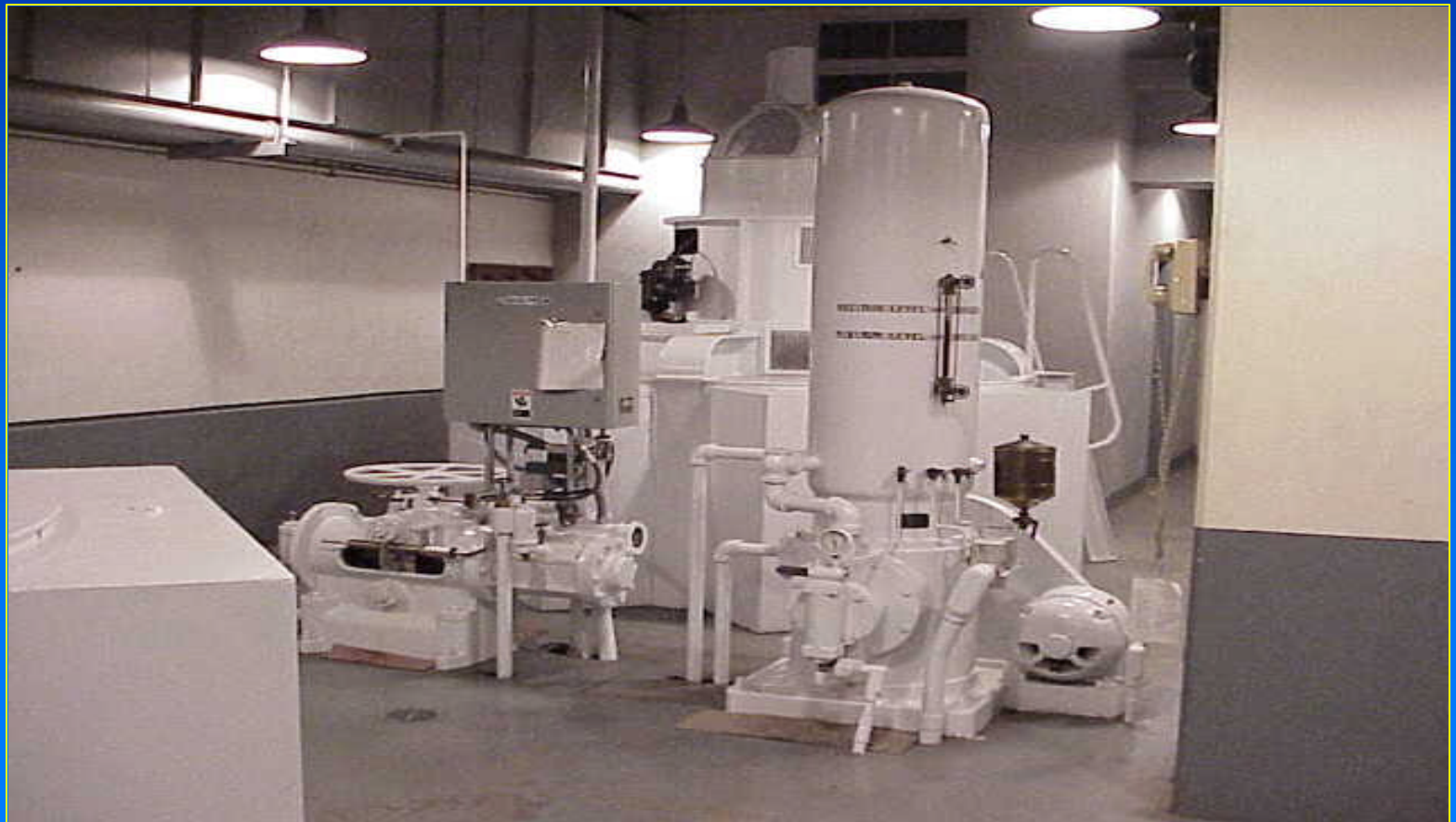
- **Rewind all units and replace cores.**
- **Rehab Unit #1 Turbine**
- **Replace Unit # 2-7 turbines with oxygen injection capability.**
- **All units new Static Exciters with Power System Stabilization.**
- **All units new Electronic Governors.**



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# **John H. Kerr Station Units Plans and Specs have been Developed. Work Scheduled to Begin FY 2005**

## **Rewind Two Units, Update Other Equipment**







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# Philpott Dam

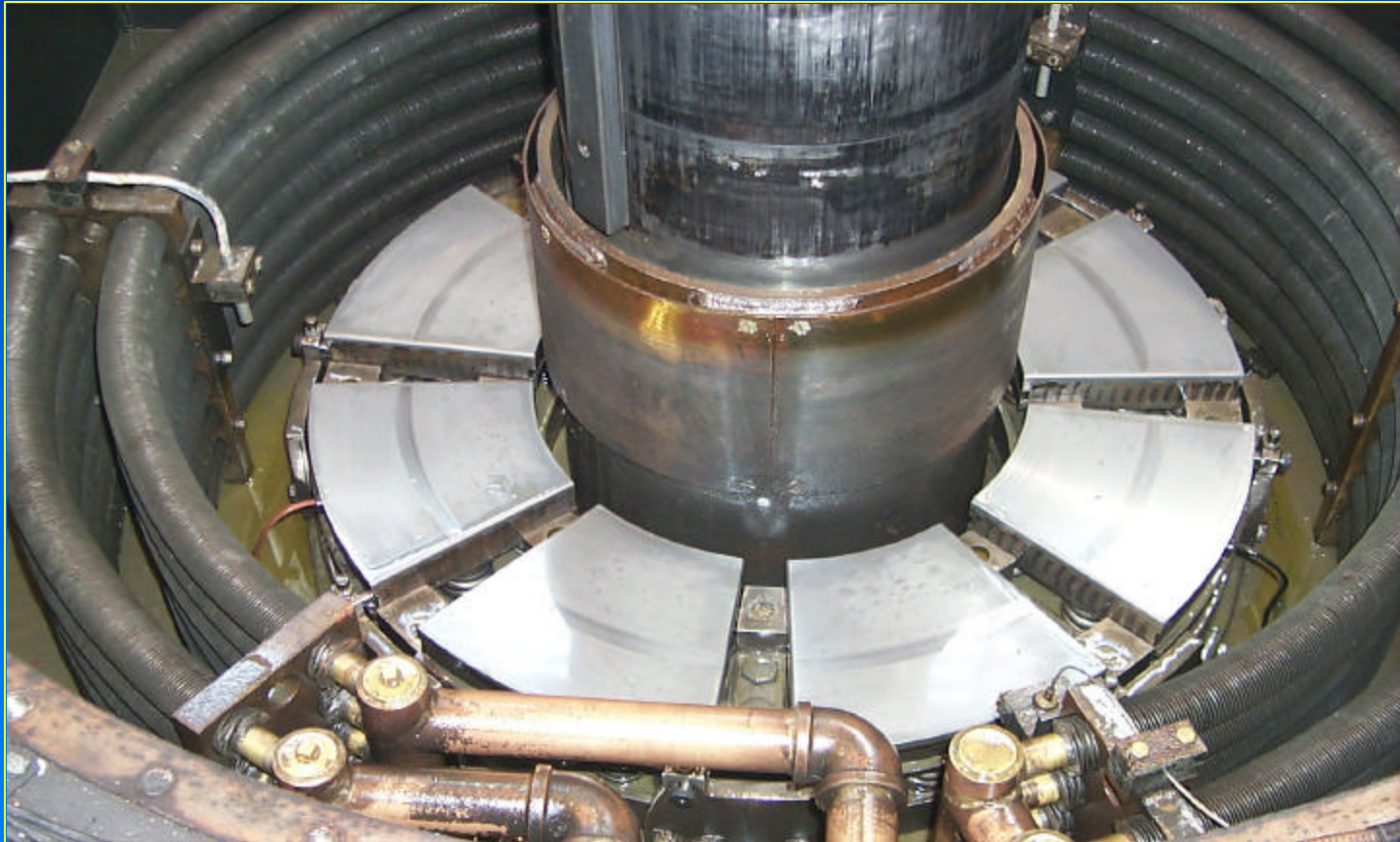




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# Philpott Powerhouse

**Plans and Specs have been  
Developed to Rehab  
the Station Unit. Work  
is Scheduled to Begin FY 2005.**







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# Summary

- **Circuit Breaker Supply and Install Contract: \$4,689,555, Complete.**
- **Crane Rehab: \$1,014,578, Complete.**
- **Transformer Supply: \$2,914,280, Complete**
- **Main Contract: \$46,892,790, Awarded,  
30 January 2003, Scheduled Completion  
Unknown at this time.**
- **Total Cost: \$55,511,203.**